Heller nucut

AMERICAN PATTERN

Files and Rasps

HELLER TOOL CO.

AMERICA'S OLDEST FILE MANUFACTURER

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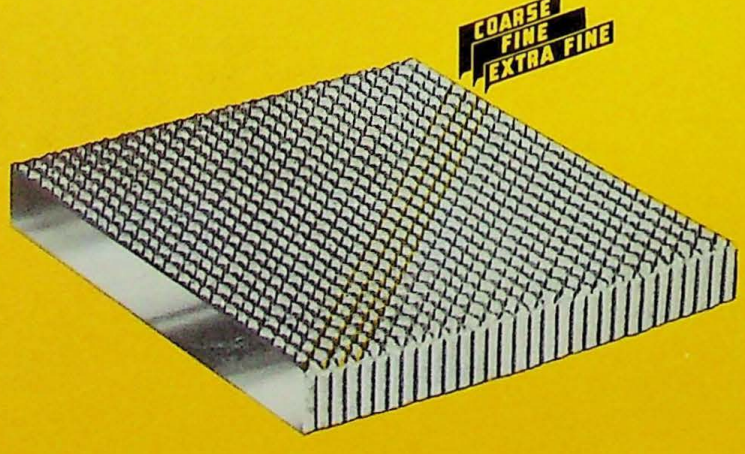
THE WAVY-TEETH FILE

The Heller Nucut "Wavy Teeth" principle is one of the most important advances in recent file history.

Nucut files combine fine and coarse teeth by a planned irregularity. In one area of the file's working face, the rows of teeth are spaced progressively wider by regular increments of spacing. In another area, teeth are spaced progressively narrower by regular decrements of spacing.

The result is the well-known patented "Wavy Teeth" design. Nucut Files cut faster, smoother, without chattering. They are also more durable, longer lasting. Every Nucut file is heat treated and hardened precisely under electrical control.

Nucut Files work equally well on steel, iron, aluminum, brass, bronze, copper, slate, wood and most other materials.



This greatly enlarged section illustrates the patented Wavy-Teeth principle.

Only the right file does the right job!

In all its sizes and varieties, the common file is one of the mechanic's most important tools for both production and maintenance work. Proper selection of files means a quicker, easier, more efficient job, and longer file life.

Make this catalog your ready reference on file facts and do a better filing job at less cost.

HOW TO CHOOSE A FILE

The kind of work, the properties of the material to be filed, the manner of filing, the results desired, all must be considered when selecting a file:

SHAPE • The shape of the work to be filed will determine the shape of the file—and there is a specific file for each type of filing job, whether it be a flat, concave, or convex surface, slot, square hole, circular hole, or edge.

SIZE • The size and location of the material and the length of the stroke desired will determine the size of the file needed.

CUT • The nature of the material, the amount to be removed and the finish desired will determine the type and cut of the file you require.

FILE DICTIONARY

To understand files, it's necessary to be familiar with several terms common to the trade. The brief definitions below will give you a working knowledge.

SIZE • Length of file measured from shoulder, or point where body meets the tang, to the opposite end, or point.

SHAPE • The cross-section outline.

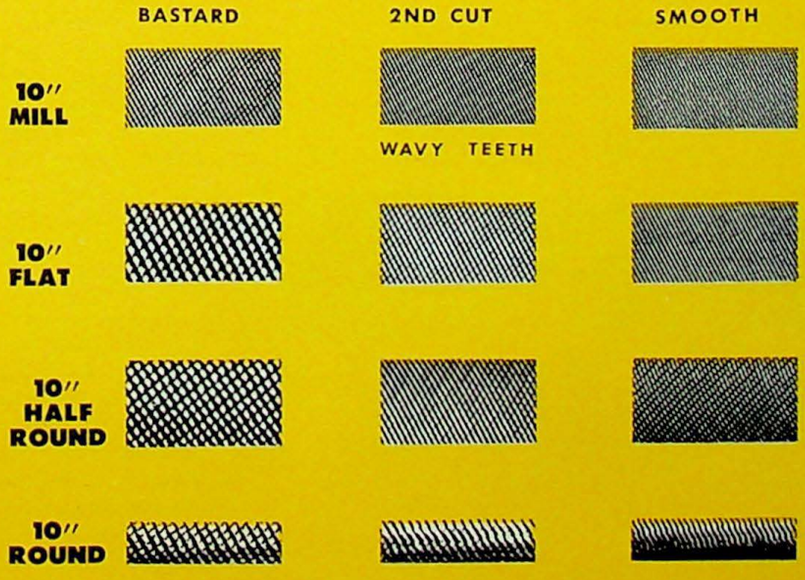
TYPE • General nature of the work for which the file is best suited. There are four general classifications of American Pattern Files now in general use:

1. ***Mill and Saw Files***—for sharpening or dressing edge tools. Mill files are often used for lathe filing as well.
2. ***Machinists' Files***—for removing metal rapidly, for fast work.
3. ***Cabinet and Wood Files and Rasps***—for use on wood and non-metallic materials . . . rasps for quantity removal, files for finishing.
4. ***Special Purpose Files***—Designed for particular jobs requiring specific file characteristics.

CUT • Manner in which teeth are arranged on the working faces, and the relative coarseness of the teeth. A single cut file has one series of parallel teeth or cuts, equally spaced. A double cut file has a second series of parallel cuts superimposed on and at an angle to the first cuts.

OTHER IMPORTANT FILE TERMS

File edges may be cut or uncut. Uncut file edges are known in the trade as "safe." Two other common terms used in file description are "blunt" and "taper." A blunt file has the same thickness and width from shoulder to point. A file which tapers has non-parallel sides and cutting faces.



STANDARD TOOTH CUTS

The illustrations at left serve only to show a cut comparison between four various types of ten-inch files. Bear in mind that the coarse cut illustrated for any ten-inch file would not be the same degree of coarseness as that found on the same file in a six-inch length. However, the same relative difference always exists between Bastard, Second Cut and Smooth Cut for any file in any particular length.

NOTE: Some file shapes and sizes as designated in this catalog are available in Coarse Cut (slightly coarser than Bastard) and take Bastard Cut file prices.

MACHINISTS' FILES

Designed for fast removal of all types of metal, these files are generally double cut and come in shapes and sizes for specific applications.

C—Coarse Cut
(Slightly Coarser Than Bastard)
B—Bastard Cut
2—Second Cut
S—Smooth Cut

ALUMINUM - FLAT

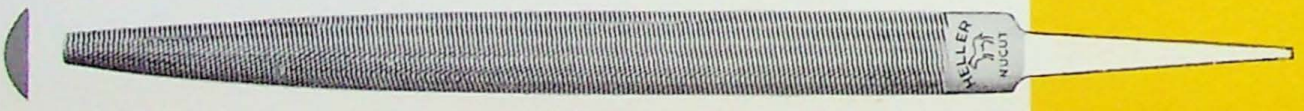
SIZE	
6" x	5/8" x 5/32"
8" x	25/32" x 7/32"
10" x	31/32" x 1/4"
12" x	1 5/32" x 9/32"

This file has fast cutting teeth especially designed for use on aluminum, aluminum alloys, soft steel and various non-ferrous metals. Double cut, it is uniform in thickness but tapers in width toward the point.

ALUMINUM - HALF ROUND

SIZE		
6" x	19/32" x 5/32"	Furnished with narrow point.
8" x	3/4" x 7/32"	
10" x	15/16" x 9/32"	
12" x	1 1/8" x 11/32"	—Furnished with blunt point.

Like the Flat Aluminum, this file is made especially for use on aluminum and soft type metals. The half round shape permits filing on concave surfaces and rounding out holes. It has one flat side and tapers toward the point. Double cut.



BRASS - HALF ROUND

BRASS FILES half round only

SIZE		
8" x	3/4" x 7/32"	Furnished with narrow point.
10" x	15/16" x 9/32"	
12" x	1 1/8" x 11/32"	—Furnished with blunt point.

This is an excellent file for use on bronze, copper and aluminum as well as brass. Made with one rounded and one flat side it is adaptable for filing concave or flat surfaces. It tapers toward the point. Double cut.

FLAT

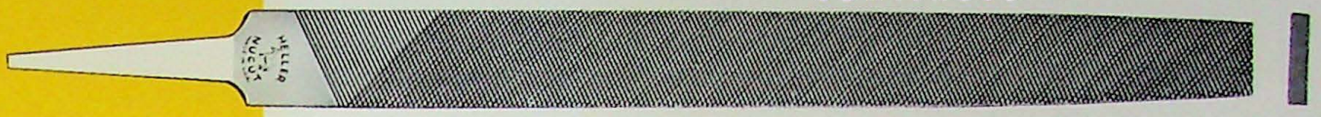
SIZE	CUT
4" x 15/32" x 3/32"	B-2-S
6" x 5/8" x 5/32"	C- B-2-S
8" x 25/32" x 7/32"	C- B-2-S
10" x 31/32" x 1/4"	C- B-2-S

SIZE	CUT
12" x 1 5/32" x 9/32"	C- B-2-S
14" x 1 11/32" x 5/16"	C- B-2-S
16" x 1 17/32" x 11/32"	B-2-S
18" x 1 11/16" x 3/8"	B

Universally favored in the factory, machine shop and garage, this is the general purpose "work horse" used by all mechanics for rapid stock removal. Double cut, it tapers in width toward the point and has cut edges.

MACHINISTS' FILES

CONTINUED



FOUNDRY-FLAT

Designed for snagging or rough-filing castings, this file is shaped like a Flat File but has sturdier teeth capable of withstanding foundry usage. Double cut, it tapers in width toward the point.

SIZE
8" x 25/32" x 7/32"
10" x 31/32" x 1/4"
12" x 1 5/32" x 9/32"
14" x 1 11/32" x 5/16"

FOUNDRY-HALF ROUND

Like the Flat Foundry, this file is made especially for filing rough castings and hard metals. The half round shape makes it useful on concave surfaces and for rounding out holes. It has one flat side and tapers toward the point. Double cut.

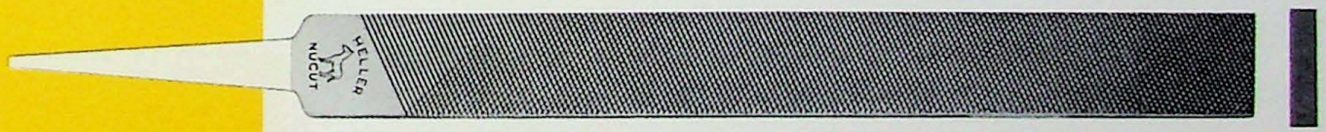
SIZE
8" x 3/4" x 7/32"
10" x 15/16" x 9/32"
12" x 1 1/8" x 11/32"
14" x 1 9/32" x 13/32"

HALF ROUND

These files are used for filing out concave surfaces and crevices, and for rounding out holes. Their improved spiral cut enables them to remove metal rapidly and leave a smooth finish.

SIZE	CUT
4" x 7/16" x 1/8"	B-2-S
6" x 19/32" x 5/32"	C- B-2-S
8" x 3/4" x 7/32"	C- B-2-S
10" x 15/16" x 9/32"	C- B-2-S

SIZE	CUT
12" x 1 1/8" x 11/32"	C- B-2-S
14" x 1 9/32" x 13/32"	C- B-2-S
16" x 1 13/32" x 13/32"	B-S

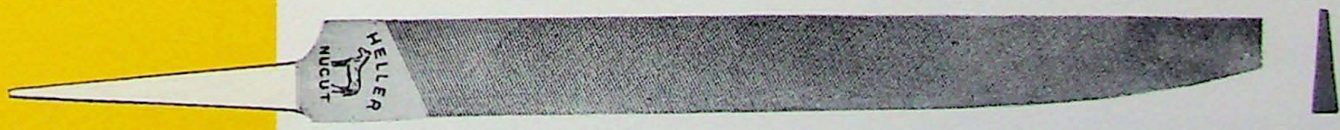


HAND

This file has the same cross-sectional dimensions as the Flat File but is blunt in shape (no taper). Double cut, it has one safe (uncut) edge which permits filing one surface without damaging an adjoining one.

SIZE	CUT
6" x 5/8" x 5/32"	B-2-S
8" x 25/32" x 7/32"	B-2-S
10" x 31/32" x 1/4"	B-2-S

SIZE	CUT
12" x 1 5/32" x 9/32"	B-2-S
14" x 1 11/32" x 5/16"	B-2-S



KNIFE

Shaped like a knife blade, this file is commonly used on slots and keyways and for acute angle work in diemaking. Sides are double cut and the thin edge is cut but the back is safe (uncut).

SIZE	CUT
4" x 1 5/32" x 7/64"	B-2-S
6" x 21/32" x 5/32"	B-2-S

SIZE	CUT
8" x 27/32" x 3/16"	B-2-S
10" x 1 1/32" x 1/4"	B-2-S

MACHINISTS' FILES

CONTINUED

LEAD FLOAT-FLAT

SIZE
8" x 25/32" x 7/32"
10" x 31/32" x 1/4"
12" x 1 5/32" x 9/32"

Designed for filing very soft metals, this coarse, single cut file can be used on lead, babbitt, etc., without clogging. Uniform in thickness, it tapers in width toward the point.

LEAD FLOAT-HALF ROUND

SIZE
8" x 3/4" x 7/32"
10" x 15/16" x 9/32"
12" x 1 1/8" x 11/32"

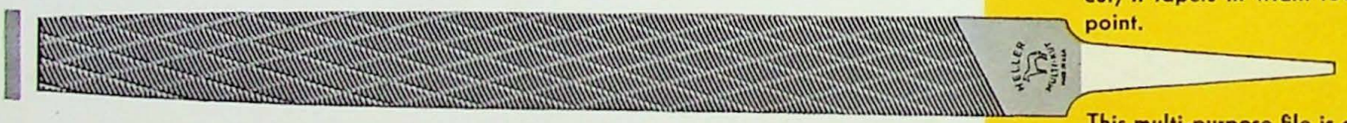
Like the Flat Lead Float, this coarse tooth file is designed for use on soft materials such as lead and babbitt. The half round shape is adaptable for concave surfaces and rounding out holes. It tapers toward the point. Single cut.

LONG ANGLE LATHE

SIZE
10" x 31/32" x 1/4"
12" x 1 5/32" x 9/32"
14" x 1 11/32" x 5/16"

Designed for smooth finish lathe work on either hard or soft metals, this file has the teeth cut on a long angle. Both edges safe (uncut) to permit working next to a shoulder without injury to it. Also used for finish filing of aluminum. Single cut, it tapers in width toward the point.

MILL FILES – SEE PAGE 10



MULTI-KUT FLAT

SIZE	SIZE
8" x 25/32" x 7/32"	12" x 1 5/32" x 9/32"
10" x 31/32" x 1/4"	14" x 1 11/32" x 5/16"

This multi-purpose file is designed to fill the need for a versatile file. Ground-in diamond formation chip breaking grooves speed cutting action yet leave a smooth surface on brass, plastics, steel, cast iron or almost any metal. Uniform in thickness, it tapers in width toward the point.

MULTI-KUT HALF ROUND

SIZE	SIZE
8" x 3/4" x 7/32"	12" x 1 1/8" x 11/32"
10" x 15/16" x 9/32"	14" x 1 9/32" x 13/32"

This shape combines two exclusive file designs: Multi-Kut on the flat side and Spiral Cut on the radius side. This combination gives rapid, smooth finish filing on flat or concave surfaces or for rounding out holes.

MULTI-KUT SQUARE

SIZE	SIZE
8" x 5/16"	12" x 1/2"
10" x 3/8"	14" x 5/8"

Tapered toward the point and cut on all four sides, this fast cutting file is useful in slots, keyways, splines, square holes and surface work.

MACHINISTS' FILES

CONTINUED

PILLAR

Rectangular in cross section, this is a favorite file for enlarging slots and keyways both because of its shape and because it has one safe (uncut) edge. Double cut, it is uniform in width and thickness.

SIZE	CUT
6″ x 7/16″ x 7/32″	B-2-S
8″ x 9/16″ x 9/32″	B-2-S
10″ x 21/32″ x 11/32″	B-2-S

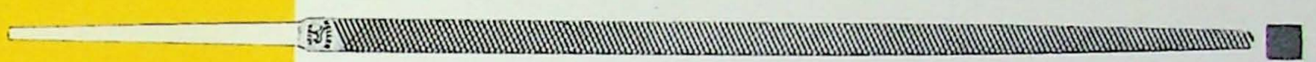
SIZE	CUT
12″ x 23/32″ x 13/32″	B
14″ x 29/32″ x 15/32″	B

ROUND

Designed for enlarging circular holes or rounded grooves, too small for a Half Round File, this is another popular machinists' file. It tapers toward the point making it adaptable for use on various size holes.

SIZE	CUT
4″ x 5/32″	B-2-S
6″ x 7/32″	B-2-S
7″ x 17/64″	B
8″ x 5/16″	B-2-S

SIZE	CUT
10″ x 3/8″	B-2-S
12″ x 1/2″	B-2-S
14″ x 5/8″	B-2-S
16″ x 3/4″	B

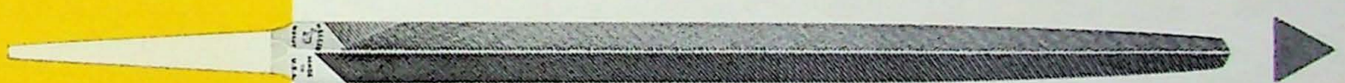


SQUARE

Handy for use on slots, keyways, splines, rectangular as well as square holes and for surface work, this file has four equal sides. Double cut, it tapers toward the point.

SIZE	CUT
4″ x 5/32″	B-2-S
6″ x 7/32″	C- B-2-S
8″ x 5/16″	C- B-2-S
10″ x 3/8″	C- B-2-S

SIZE	CUT
12″ x 1/2″	C- B-2-S
14″ x 5/8″	C- B-2-S
16″ x 3/4″	B

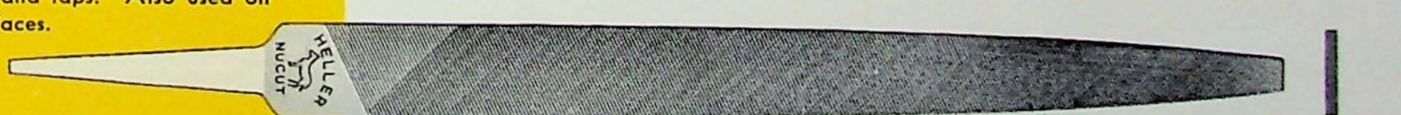


THREE SQUARE

Triangular in shape, this file has 60° angles between sides and tapers toward the point. Double cut, it is used for cleaning out corners, filing internal angles inaccessible to rectangular shape files, and for filing annealed cutters and taps. Also used on flat surfaces.

SIZE	CUT
6″ x 13/32″	B-2-S
8″ x 5/8″	B-2-S

SIZE	CUT
10″ x 3/4″	B-2-S
12″ x 27/32″	B



WARDING

Widely used by locksmiths in filing the wards in locks and keys, this file is also favored by machinists for narrow slotting and working on intricate shapes. Double cut, it is uniform but very thin in thickness and tapers extremely in width toward the point.

SIZE	CUT
4″ x 13/32″ x 3/64″	B-2-S
6″ x 5/8″ x 5/64″	B-2-S

SIZE	CUT
8″ x 23/32″ x 3/32″	B-2-S
10″ x 15/16″ x 1/8″	B-2-S
12″ x 1 7/64″ x 9/64″	B

(SEE PAGE 14 FOR SPECIAL PURPOSE FILES)

SAW FILES

Generally single cut (some types also available double cut), these files leave a smooth finish and are best suited for sharpening saws or dressing edged tools. Certain files are furnished especially for sharpening chain saws—see Page 11.

C—Indicates Coarse Cut (Slightly Coarser Than Bastard)
B—Indicates Bastard Cut 2—Indicates Second Cut S—Indicates Smooth Cut

BAND SAW-BLUNT

SIZE (REG.)	SIZE (SLIM)
6″ x 13/32″	6″ x 5/16″
8″ x 19/32″	8″ x 13/32″

Designed for sharpening narrow wood band saw blades with coarse teeth, this triangular shape blunt type file has rounded cut edges to maintain round bottom gullets. Single or double cut, it is furnished in Regular or Slim types.

CANT SAW

SIZE	SIZE
6″ x 17/32″ x 13/64″	8″ x 11/16″ x 9/32″
7″ x 39/64″ x 1/4″	10″ x 13/16″ x 11/32″

Triangular in shape with angles of 36, 36 and 108 degrees, making one flat side and two wide angled faces, this blunt type file is a favorite for sharpening small circular saws, buck saw blades and cross-cut saw raker teeth. Furnished single or double cut.

CROSS-CUT GREAT AMERICAN

SIZE
6″ x 9/16″ x 7/32″
8″ x 11/16″ x 9/32″
10″ x 13/16″ x 23/64″

Wedge-shaped with a rounded, cut back, this file is especially designed for sharpening Great American type cross-cut saws and to file out rounded gullets of other type saws. Single or double cut, it is also cut along the thin edge.

CROSS-CUT SPECIAL

SIZE	SIZE
6″ x 19/32″ x 7/64″	8″ x 23/32″ x 9/64″
7″ x 11/16″ x 1/8″	10″ x 31/32″ x 11/64″

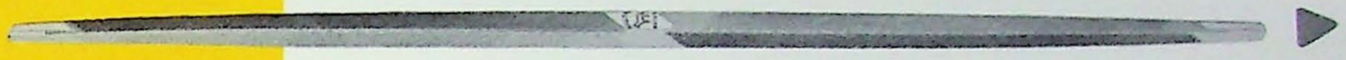
Uniform in both width and thickness, this is a favorite file for sharpening circular as well as cross-cut saws. It provides more cutting surface, lasts longer and produces a smoother finish and keener cutting edge on saw teeth. Single or double cut, it has cut edges.

SAW FILES CONTINUED

SIZE
10″ x 3/8″

DADO

This square, blunt, single cut file is especially designed for sharpening the cutting teeth of outside dado saws. It leaves a smooth finish and maintains proper tooth shape. Keep dado head rakers and fillers sharp with a Mill Bastard File.



SIZE
6″ x 13/64″
7″ x 7/32″
8″ x 9/32″

SIZE
9″ x 11/32″
10″ x 3/8″

DOUBLE ENDER

Made without a tang, this triangular shape file is actually two files in one. It tapers from the middle toward the ends and the teeth extend from the middle outward in both directions. Available single cut or double cut. Length is measured over all. Six wooden handles included with each dozen files.

SIZE
8″ x 5/16″
10″ x 3/8″

GULLET SPECIAL

Designed to dress-out wide band saw gullets after gumming, this round, blunt type file helps maintain smooth, round gullet shape and eliminate crack-causing case-hardening. Single cut.

SIZE
5 1/2″ x 1/4″
6″ x 9/32″
7″ x 11/32″

HAND SAW SPECIAL

Designed for sharpening handsaws, this file is the same in cross section as the Extra Slim Taper but is blunt in shape. Single cut, it has cut edges.

FILES RECOMMENDED FOR VARIOUS POINT HANDSAWS

POINTS	FILE
5	7″ Taper
6	7″ or 8″ Slim
7	6″ or 7″ Slim
8	6″ Slim, 7″ Ex. Slim, 8″ Dble. Ex. Slim
9	6″ Ex. Slim, 7″ Dble. Ex. Slim
10	5″ or 6″ Ex. Slim
11	5″ Ex. Slim, 6″ Dble. Ex. Slim
12	5″ Ex. Slim
13, 14	5″ Dble. Ex. Slim
15, 16	4″ Dble. Ex. Slim

SEE PAGE 11 FOR CHAIN SAW FILES

SAW FILES CONTINUED

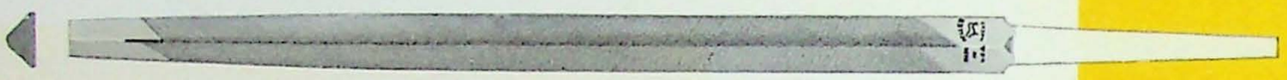
MILL

SIZE	CUT	SIZE	CUT
4″ x 7/16″ x 5/64″	B-2-S	10″ x 31/32″ x 11/64″	C-B-2-S
6″ x 19/32″ x 7/64″	C-B-2-S	12″ x 1 5/32″ x 7/32″	C-B-2-S
7″ x 11/16″ x 1/8″	B	14″ x 1 5/16″ x 1/4″	C-B-2-S
8″ x 25/32″ x 9/64″	C-B-2-S	16″ x 1 1/2″ x 9/32″	B

1 ROUND EDGE — Made in 6″, 8″, 10″ and 12″ Bastard Cut Only

2 ROUND EDGES — Made in 6″, 8″, and 10″ Bastard Cut Only

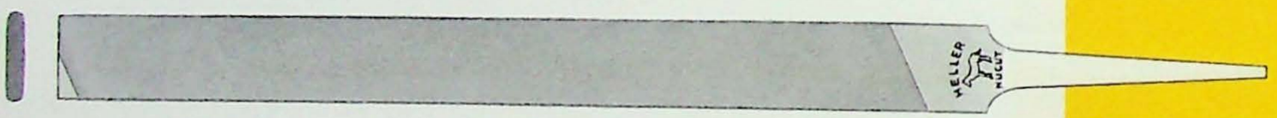
This is one of the most generally used files because it is adaptable for so many purposes such as sharpening saws, shears, lawn mowers, axes, farm tools, etc., and for draw filing, lathe work and general shop use. This file tapers slightly in width and is available either single cut or double cut. It is furnished with both edges cut or with either one or two round edges.



NARROW BAND SAW SPECIAL

	SIZE
No. 2	8″ x 9/16″
No. 3	6″ x 1/2″ 7″ x 1/2″
No. 456	6″ x 3/8″ 7″ x 13/32″

This tapered triangular shape file with cut edges or corners is especially designed to sharpen narrow band saw teeth and maintain round gullets. No. 2 is for 2-tooth saws; No. 3 is for 3-tooth saws; and No. 456 is for 4-, 5-, or 6-tooth saws. Order by number and length.



SAW BIT SPECIAL

SIZE
8″ x 13/16 x 5/32″

This two round-edge file is furnished especially for sharpening inserted tooth circular wood saw bits and avoids damaging the shank. Single cut, it is uniform in both width and thickness, provides more filing surface and lasts longer.

TAPER

SIZE	SIZE
6″ x 15/32″	8″ x 19/32″
7″ x 17/32″	10″ x 23/32″

Triangular in shape and tapered toward the point, these files are used primarily for sharpening standard handsaws. They can,

SLIM TAPER

SIZE	SIZE
4″ x 7/32″	7″ x 13/32″
5″ x 9/32″	8″ x 15/32″
6″ x 11/32″	10″ x 5/8″

of course, also be used for sharpening circular saws, narrow band, cross-cut and buck saws. All have cut edges or corners to maintain saw gullets.

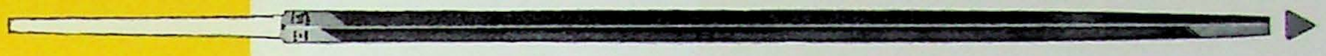
Continued on Next Page

SAW FILES CONTINUED

Furnished single or double cut, these files are available in four degrees of taper: Regular (largest), Slim, Extra Slim and Double Extra Slim.

SIZE	SIZE
4″ x 3/16″	6″ x 9/32″
5″ x 15/64″	7″ x 5/16″
5 1/2″ x 1/4″	8″ x 13/32″

EXTRA SLIM TAPER



Follow chart recommendations on page 9 for applications.

SIZE	SIZE
4″ x 5/32″	7″ x 1/4″
5″ x 3/16″	8″ x 5/16″
6″ x 7/32″	

DOUBLE EXTRA SLIM TAPER

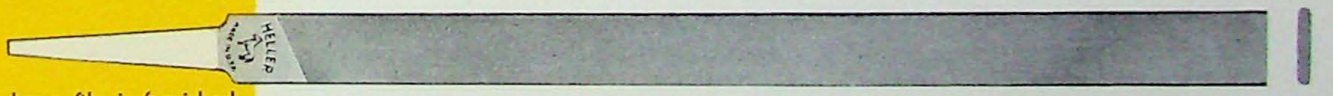
CHAIN SAW FILES

These files are made especially for sharpening the various types of chain saw teeth—leave a smoother, sharper cutting edge. Fast cutting and long lasting.

This smooth, double cut file is especially shaped for sharpening square-hooded or chisel-bit teeth. Fast cutting, it leaves a smooth, keen edge.

SIZE	NO.	CUT
6″ x 11/32″ x 7/32″	3365	Smooth

LOZENGE CHAIN SAW



This blunt shape file is furnished for scratcher type chain saws with plain cutter-and-raker teeth. The round edges prevent sharp corners that may cause trouble.

SIZE	NO.
8″ x 5/8″ x 3/32″	3084

NAR. MILL CHAIN SAW 2 Round Edges

Developed and perfected especially for sharpening round-hooded chain saw teeth, this double cut file maintains proper tooth shape and leaves a smooth, keen cutting edge. Furnished in 8″ length only but in 6 different cross sections to handle teeth of all dimensions.

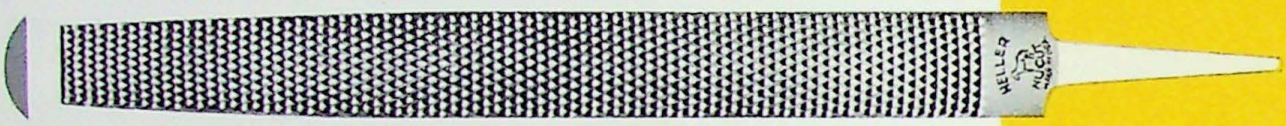
SIZE	CUT
8″ x 3/16″	Smooth
8″ x 7/32″	Smooth
8″ x 1/4″	Smooth
8″ x 9/32″	Smooth
8″ x 5/16″	Smooth
8″ x 3/8″	Smooth

ROUND CHAIN SAW

Information on other types and sizes of Chain Saw Files available on request.

RASPS AND WOOD FILES

Rasps have uniform, individually-formed teeth and are generally used by wood craftsmen, wheelwrights, plumbers, leather and aluminum workers, blacksmiths and hobbyists. Wood Files are used for finish filing of wood only.



CABINET RASP

SIZE	CUT
6" x 11/16" x 3/16"	2
8" x 29/32" x 1/4"	2-S
10" x 1 1/8" x 9/32"	2-S
12" x 1 11/32" x 11/32"	2-S
14" x 1 9/16" x 3/8"	2

Cut on both flat and rounded sides with single cut edges, this rasp is thinner and has a larger radius on the rounded side than the Half Round Rasp. Made with finer teeth, it tapers toward the point—leaves a smoother finish.

HORSE RASP (Half File)

PLAIN—Regular

SIZE
12" x 1 5/16" x 11/32"
14" x 1 1/2" x 3/8"
16" x 1 23/32" x 7/16"

PLAIN—Slim Pattern

SIZE
18" x 1 9/16" x 13/32"

TANGED—Regular

SIZE
14" x 1 3/4" x 7/16"
16" x 1 7/8" x 15/32"

TANGED—Thin Pattern

SIZE
14" x 1 3/4" x 11/32"

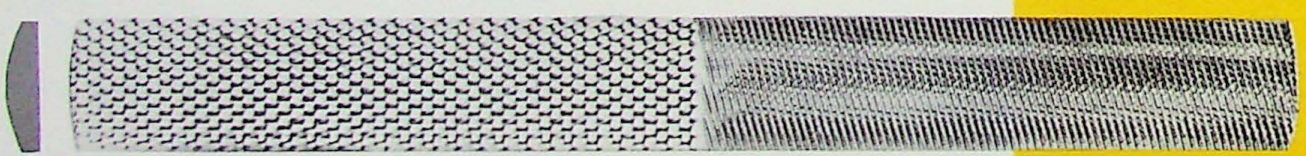
"RACE TRAK" TANGED

SIZE
14" x 1 3/4" x 9/32"

PLAIN

SIZE
18" x 1 9/16" x 11/32"

Made plain or with tang, with a choice of Regular, Slim or "Race Trak," this type rasp is mainly used by horseshoers and blacksmiths. It is flat with rasp cut on one side and file cut on reverse side.



SHOE RASP

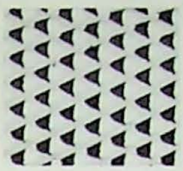
SIZE	CUT
8" x 7/8" x 9/32"	ALL SPECIAL COMB.
9" x 31/32" x 5/16"	
10" x 1 1/16" x 11/32"	ALL SPECIAL COMB.

This tangless rasp has been adopted for general all-around use by woodworkers, hobbyists and modelmakers as well as by shoemakers and leathercraftsmen. Made with one flat and one rounded side, half the length of each side is rasp punched with the other half file cut.

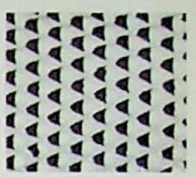
RASPS AND WOOD FILES

CONTINUED

B—Bastard Cut



2—Second Cut



S—Smooth Cut

Cut on both flat sides and single cut on the edges, this rasp tapers to the point in width only . . . is used by woodworkers, plumbers and soft metal workers.

SIZE	CUT	SIZE	CUT
8″ x 2 5/32″ x 9/32″	B	12″ x 1 5/32″ x 13/32″	B
10″ x 3 1/32″ x 1 1/32″	B	14″ x 1 11/32″ x 15/32″	B

WOOD RASP-FLAT

Cut on both flat and rounded sides with single cut edges, this coarse tooth rasp is useful on curved as well as flat wood or soft metal surfaces. It tapers toward the point.

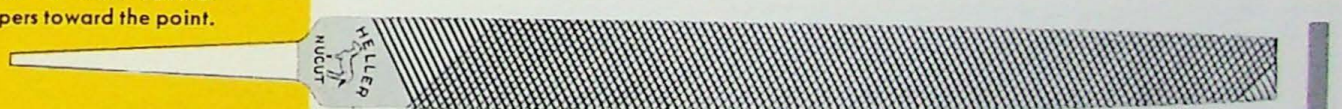
SIZE	CUT	SIZE	CUT
6″ x 1 9/32″ x 1/4″	B	12″ x 1 5/32″ x 7/16″	B-S
8″ x 2 5/32″ x 5/16″	B-S	14″ x 1 11/32″ x 1/2″	B
10″ x 3 1/32″ x 3/8″	B-S	16″ x 1 17/32″ x 9/16″	B

WOOD RASP-HALF ROUND

This file is similar in shape to a Half Round File but has a larger radius on the curved side. Used by cabinetmakers and woodworkers, it is made in one cut only which is ideal for most cabinet woods. It tapers toward the point.

SIZE
8″ x 7/8″ x 3/16″
10″ x 1 1/8″ x 7/32″
12″ x 1 5/16″ x 1/4″

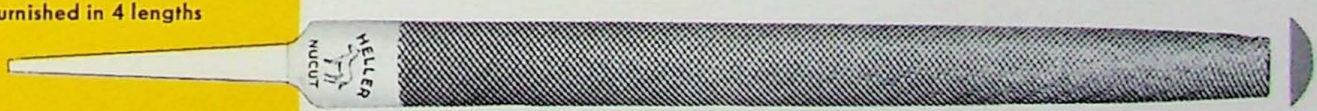
CABINET FILE



Made with extra coarse teeth that can be used on wood with minimum clogging, this Flat Wood File gives good results on all types of wood. It tapers toward the point and is furnished in 4 lengths

SIZE
8″ x 2 5/32″ x 7/32″
10″ x 3 1/32″ x 1/4″
12″ x 1 5/32″ x 9/32″
14″ x 1 11/32″ x 5/16″

WOOD FILE-FLAT

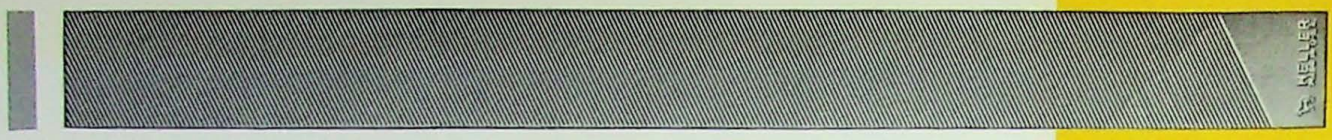


Made with the same coarse teeth as the Flat Wood File, this Half Round shape provides both a flat and curved side extending its usefulness. It tapers toward the point and is furnished in 4 lengths.

SIZE
8″ x 3/4″ x 7/32″
10″ x 1 5/16″ x 9/32″
12″ x 1 1/8″ x 11/32″
14″ x 1 9/32″ x 13/32″

WOOD FILE-HALF ROUND

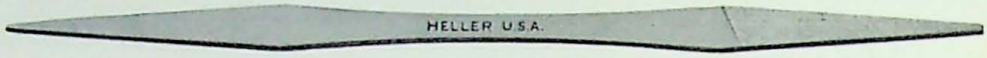
SPECIAL PURPOSE FILES



DOCTOR BLADE FILE

SIZE
#381—14" x 1 5/16" x 9/32"

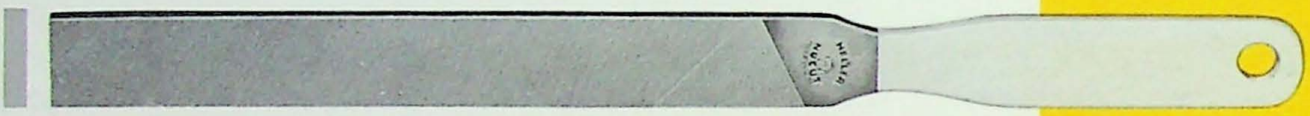
CUT
2



Made in 14" length only, this blunt shape file has no tang—is especially designed for filing doctor or scraper blades in the textile printing industry. Double cut, it is furnished in Second Cut and Smooth. Length measured over all. Order by number.

AUGER BIT FILE

SIZE
7" x 11/32" x 1/16"



Designed to touch up the cutting edges on Auger Bits, this file has one end cut on the flat sides only and the other end on the edges only. Single cut. Length measured over all.

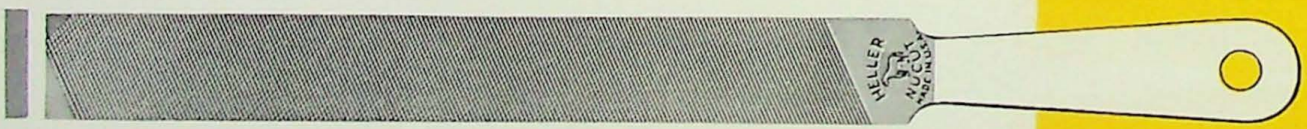
ROTARY MOWER FILE

SIZE
7" x 3/4" x 1/8"

Designed to sharpen Rotary Mower Blades and to touch up the edges of garden tools such as hoes, hatchets, etc.

FARMER'S OWN

SIZE
8" x 31/32" x 1 1/64"

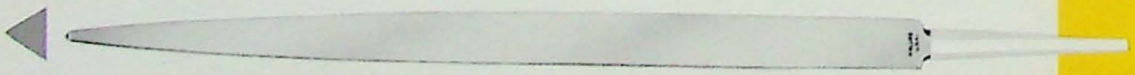


A general purpose file for the many tasks a farm mechanic meets everyday. Requires no handle, has mill-type teeth. Is ideal for sharpening scythes, mowers and other edge tools.

ALL PURPOSE FILE

SIZE	SIZE
8" x 31/32" x 3/16"	12" x 1 5/32" x 9/32"
10" x 31/32" x 3/16"	14" x 1 11/32" x 5/16"

A useful household tool for a multitude of filing jobs. Bastard Cut on one side, with finer teeth on the other side.



MACHINISTS' SCRAPER

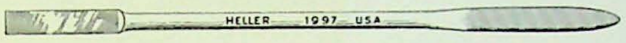
NO.	SIZE	NO.	SIZE
3144	5" x 13/32"	3147	5" x 5/16"
3145	6" x 1/2"	3148	6" x 11/32"
3146	7" x 9/16"	3149	7" x 13/32"
		3234	8" x 1/2"

Three-square, pointed, file steel blade with tang to fit standard Heller file handle No. 106. Made of the finest steel carefully hardened and ground. Sold with or without handle. File handle fits all sizes.

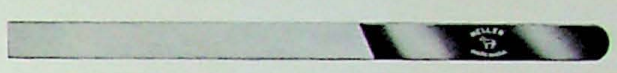
IGNITION FILES

5″ PATENTED TUNGSTEN POINT FILES (POCKET CLIP)
Clip handle fits over pocket flap for easy carrying. A necessary tool for every auto mechanic. Used for cleaning spark plugs and dressing contact points. Packed in boxes containing a dozen files. Also mounted on cards (one dozen to a card).

5″ REGULAR TUNGSTEN POINT FILES
For cleaning distributor points and spark plugs. Also used in cleaning contact points of magnetos, switches, electric bells, etc. Made with chisel tip for entering gaps and slots. Packed in boxes containing one dozen files and also mounted on cards (one dozen files to a card).

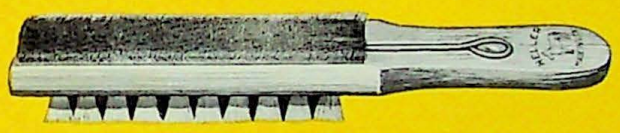


6″ VOLTAGE REGULATOR RIFFLERS No. 1997
Recommended for removing pits and corrosion from contact points and also for filing them to a smooth finish. Length 6″ over-all. Packaged in cardboard tubes to prevent breakage. One dozen to a box.



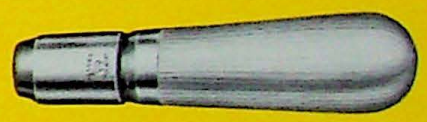
5″ VOLTAGE REGULATOR FILES No. 2470
For voltage regulators, circuit breakers, relay and other electrical contact points requiring an extra-thin file with fine cut and smooth finish. 5″ over-all — 5/16″ wide, approximately .015″ thick. Packed on counter display cards only, one dozen on card — twelve cards to a carton.

FILE CARDS AND HANDLES



FILE CARDS

When file teeth are clogged with filings—slipping, scratching and inefficient cutting result. Clean your coarse file frequently with a file card (specially designed fine wire brush), and use the brush on your fine cut file. The combination file card and brush provides both card and brush, with a specially designed pick, in one handy cleaning tool.



FILE HANDLES

A handle should always be used on a tanged file. A properly fitted handle means quicker, better work, and makes the job easier and safer. Heller handles are manufactured of soft wood and readily absorb hand moisture. Long shank steel ferrule prevents splitting.

SIZES

# 104	4″ for small files
# 106	4-1/2″ for files 4″ to 8″
# 108	5″ for files 8″ to 10″
# 110	5-1/2″ for files 12″ to 14″
# 112	6″ for files 16″ to 20″

Standard carton contains 1/4 gross of a size.

FILES FOR STAINLESS STEEL

Any type or size Heller Nucut File is also available for use on hard-to-cut stainless steel. The teeth of these special purpose files are extra strong and sharp to withstand tougher cutting . . . yet cost no more than regular files. When ordering, be sure to add "For Stainless Steel" to file specifications.

FILES FOR PLASTICS

Extra sharp and rapid clearing, Heller Nucut Files are widely used and work especially well on plastics. All file types and sizes are available for use on "hard" or "soft" type plastics. Simply give us a job description and we will specify and furnish the most efficient file for your purpose.

NUCUT AMERICAN PATTERN FILES

AMERICAN-SWISS SWISS PATTERN FILES

VIXEN MILLED CURVED-TOOTH FILES

ROTARY FILES AND BURRS

HACKSAWS - HAND AND POWER

HOLE SAWS

METAL CUTTING BAND SAWS

FLAT GROUND STEEL

CARBIDE TOOLS AND BURRS

HAMMERS

HELLER TOOL CO.

America's Oldest File Manufacturer
NEWCOMERSTOWN, OHIO
Subsidiary of Simonds Saw and Steel Co.

Branch Offices and Warehouses:

Union, N. J. • Detroit • Chicago • Shreveport • Los Angeles • San Francisco • Portland, Oregon

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